

Semester II Courses for 2018-19

Core Course

1. Arun Nayak: Numerical methods, Mathematical methods, Research methodology
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Optional Courses:

2. Saptarshi Mandal: Adv CMP
 3. Sanjib Kumar Agarwala: HEP
 4. Kirtiman Ghosh: Special topics in HEP (Adv topics in particle Physics)
 5. Sudipta Mukherji: Critical phenomena (Spl topics in Stat Mech)
 6. Debasish Chaudhuri: Active matter physics (Special topics in Stat Mech)
 7. Manimala Mitra: QFT II
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Of these, course 1 is mandatory.

Predocs are to choose two out the remaining 6.

In addition, each will have to do a project equivalent to 2 courses.

For course outlines see the syllabus: <https://www.iopb.res.in/acad.aff>

For special courses

Sudipta Mukherji: Special topics in Stat Mech.

Details are here: <https://www.iopb.res.in/mukherji/TEACHING/crit18.html>

Debasish Chaudhuri

Special topics in Statistical Physics (I'll cover active matter physics)

active particles, active fluids and gels, motility induced transitions, etc.; shall discuss necessary background on soft-matter and non-equilibrium physics, if required)